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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/601,888	08/09/2000	ARTHUR JING-MIN YANG	P 0290714	3779
43569	7590 12/23/2005		EXAMINER	
	ROWN, ROWE & M	HENDRICKSON, STUART L		
1909 K STRI WASHINGT	EET, N.W. ON, DC 20006		ART UNIT	PAPER NUMBER
	2, 22 2000		1754	

DATE MAILED: 12/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/601,888	YANG, ARTHUR	JING-MIN				
Office Action Summary	Examiner	Art Unit					
	Stuart Hendrickson	1754					
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	orrespondence ad	ldress				
• •		(a) an =					
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 03	October 2005						
	is action is non-final.						
3) Since this application is in condition for allows		secution as to the	e merits is				
closed in accordance with the practice under	•						
Disposition of Claims							
4)⊠ Claim(s) <u>50-57</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdra	awn from consideration.						
5) Claim(s) is/are allowed.							
5)⊠ Claim(s) <u>50-55 and 57</u> is/are rejected.							
7)⊠ Claim(s) <u>56</u> is/are objected to.	_						
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin	er.						
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by the I	Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ob	jected to. See 37 CF	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a))-(d) or (f).					
a) All b) Some * c) None of:							
 Certified copies of the priority document 	its have been received.						
Certified copies of the priority document	its have been received in Applicati	on No					
3. Copies of the certified copies of the price	ority documents have been receive	ed in this National	Stage				
application from the International Burea	au (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a lis	t of the certified copies not receive	₽ d.					
Attachment(s)							
) Notice of References Cited (PTO-892)	4) Interview Summary						
 P) Notice of Draftsperson's Patent Drawing Review (PTO-948) D Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail Da 5) Notice of Informal P) ₋ 152)				
Paper No(s)/Mail Date <u>10/3/05</u> .	6) Other:	алып аррисации (ЕТС	, 132)				
Patent and Trademark Office							

Art Unit: 1754

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The request filed on 10/3/05 for Continued examination based on parent Application No. 09/601888 is acceptable and has been established.

Claims 50-54, 55 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chieng et al. 5861110 taken with Schwertfeger et al. '375.

Chieng teaches in columns 3, 4, 8 and 20 making nanoporous silica gel from silica source in water and alcohol. Column 6 lines10-15 teach gelling by ammonia. The reference indicates that further functionalization is desirable, but does not teach the details.

Schwertfeger teaches on pg. 12, 17 and ex. 1 aging a gel then treating with an alcohol and water solution of functionalization agent. Note that 80 degrees and nitrogen atmosphere can be used in some embodiments.

Treating the material of Chieng is an obvious expedient to obtain an ion-exchange material. No differences are seen in the loading levels or effects of claim 57, due to the similarity to what is disclosed. Performing the process as a one-pot or two-pot method are obvious variants absent unexpected results; In re Dailey et al. 149 USPQ 47 and In re Dilnot 138 USPQ 248.

Applicant's arguments with respect to claims above have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

Stuart Hendrickson examiner Art Unit 1754